

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/09009

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 H01R13/658

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 238 241 B1 (ZHU ZIQIANG ET AL) 29 May 2001 (2001-05-29) figures 4,5	1-7
P,X	WO 02 056426 A (3M INNOVATIVE PROPERTIES CO) 18 July 2002 (2002-07-18) page 1	1,2,5-7
A	EP 0 908 978 A (MOLEX INC) 14 April 1999 (1999-04-14) the whole document	1-7
A	EP 0 548 942 A (SUMITOMO WIRING SYSTEMS) 30 June 1993 (1993-06-30) the whole document	1-7



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

7 July 2003

Date of mailing of the international search report

17/07/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Salojärvi, K

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International Application No  
**PCT/US 03/09009**

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6238241	B1	29-05-2001	NONE	
WO 02056426	A	18-07-2002	US 6524135 B1 CN 1409882 T EP 1305850 A1 WO 02056426 A1	25-02-2003 09-04-2003 02-05-2003 18-07-2002
EP 0908978	A	14-04-1999	JP 11119861 A JP 11176535 A CN 1216837 A CN 1216838 A CN 1215936 A CN 1215937 A EP 0908977 A2 EP 0908978 A2 EP 0908979 A2 EP 0908980 A2 SG 87010 A1 SG 85606 A1 SG 79996 A1 TW 408822 Y TW 410990 Y TW 424887 Y TW 405719 Y US 6174197 B1 US 6132243 A US 6095830 A US 6048214 A	30-04-1999 02-07-1999 19-05-1999 19-05-1999 05-05-1999 05-05-1999 14-04-1999 14-04-1999 14-04-1999 14-04-1999 19-03-2002 15-01-2002 17-04-2001 11-10-2000 01-11-2000 01-03-2001 11-09-2000 16-01-2001 17-10-2000 01-08-2000 11-04-2000
EP 0548942	A	30-06-1993	JP 5053154 U DE 69209470 D1 DE 69209470 T2 EP 0548942 A1 US 5288251 A	13-07-1993 02-05-1996 28-11-1996 30-06-1993 22-02-1994